



57114b

COPY OF PAPERS
ORIGINALLY FILED

SEQUENCE LISTING

#3

<110> Cheah, Kathryn
Cheung, Kenneth

<120> USE OF TRANSGENIC MOUSE CONTAINING A TYPE X COLLAGEN MUTANT

<130> 0467/57114-B

<140> 09/975,607

<141> 2001-10-11

<160> 5

<170> PatentIn version 3.1

<210> 1

<211> 486

<212> DNA

<213> Mouse

<400> 1

gtcatacgctg atggcttcat aaaggcaggc cagaggccca ggcttctgg gatgccgctt .
60

gtcagtgcata accacggggt aacaggtatg cccgtgtctg cttttactgt cattctctct
120

aaagcttacc cagcagtagg tgccccatc ccatttgatg agattctgta caataggcag

180

cagcattacg acccaagatc tggtatctt acctgtaaga tcccagggcat atactattc
240

tcctaccacg tgcacgtgaa agggactcac gtttgggtag gcctgtataa gaacggcacg
300

cctacgatgt acacgtatga tgagtacagc aaaggctacc tggatcaggc ttcagggagt
360

gcaatcatgg agctcacaga aaatgaccag gtagggctcc aattgcccaa tgcagaatca
420

aacggcctct actcctctga gtacgtccac tcgtccttct caggattcct agtggctccc
480

atgtga
486

<210> 2

<211> 459

<212> DNA

<213> Mouse

<400> 2

gtcatgcctg atggcttcat aaaggcagggc cagaggccca ggctttctgg gatgccgctt
60

gtcagtgcta accacggggt aacaggtatg cccgtgtctg cttttactgt cattctctct
120

aaagcttacc cagcagtagg tgccccatc ccatttgatg agattctgta caataggcag
180

cagcattacg acccaagatc tggtatctt acctgtaaga tcccagggcat atactattc
240

tcctaccacg tgcatgtgaa agggactcac gtttgggtag gcctgtataa gaacggcaca
300

cgtatgatga gtacagcaaa ggctacctgg atcaggcttc agggagtgca atcatggagc
360

tcacagaaaa tgaccaggta tggctccaat tgcccaatgc agaatcaaac ggctctact
420

cctctgagta cgtccactcg tccttctcag gattcctag
459

<210> 3

<211> 161

<212> PRT

<213> Mouse

<400> 3

Val Met Pro Asp Gly Phe Ile Lys Ala Gly Gln Arg Pro Arg Leu Ser
1 5 10 15

Gly Met Pro Leu Val Ser Ala Asn His Gly Val Thr Gly Met Pro Val
20 25 30

Ser Ala Phe Thr Val Ile Leu Ser Lys Ala Tyr Pro Ala Val Gly Ala
35 40 45

Pro Ile Pro Phe Asp Glu Ile Leu Tyr Asn Arg Gln Gln His Tyr Asp
50 55 60

Pro Arg Ser Gly Ile Phe Thr Cys Lys Ile Pro Gly Ile Tyr Tyr Phe
65 70 75 80

Ser Tyr His Val His Val Lys Gly Thr His Val Trp Val Gly Leu Tyr
85 90 95

Lys Asn Gly Thr Pro Thr Met Tyr Thr Tyr Asp Glu Tyr Ser Lys Gly
100 105 110

Tyr Leu Asp Gln Ala Ser Gly Ser Ala Ile Met Glu Leu Thr Glu Asn
115 120 125

Asp Gln Val Trp Leu Gln Leu Pro Asn Ala Glu Ser Asn Gly Leu Tyr
130 135 140

Ser Ser Glu Tyr Val His Ser Ser Phe Ser Gly Phe Leu Val Ala Pro
145 150 155 160

Met

<210> 4

<211> 152

<212> PRT

<213> Mouse

<400> 4

Val Met Pro Asp Gly Phe Ile Lys Ala Gly Gln Arg Pro Arg Leu Ser
1 5 10 15

Gly Met Pro Leu Val Ser Ala Asn His Gly Val Thr Gly Met Pro Val
20 25 30

Ser Ala Phe Thr Val Ile Leu Ser Lys Ala Tyr Pro Ala Val Gly Ala
35 40 45

Pro Ile Pro Phe Asp Glu Ile Leu Tyr Asn Arg Gln Gln His Tyr Asp
50 55 60

Pro Arg Ser Gly Ile Phe Thr Cys Lys Ile Pro Gly Ile Tyr Tyr Phe
65 70 75 80

Ser Tyr His Val His Val Lys Gly Thr His Val Trp Val Gly Leu Tyr
85 90 95

Lys Asn Gly Thr Arg Met Met Ser Thr Ala Lys Ala Thr Trp Ile Arg
100 105 110

Leu Gln Gly Val Gln Ser Trp Ser Ser Gln Lys Met Thr Arg Tyr Gly
115 120 125

Ser Asn Cys Pro Met Gln Asn Gln Thr Ala Ser Thr Pro Leu Ser Thr
130 135 140

Ser Thr Arg Pro Ser Gln Asp Ser
145 150

<210> 5

<211> 152

<212> PRT

<213> Human

<400> 5

Val Met Pro Asp Gly Phe Ile Lys Ala Gly Gln Arg Pro Arg Leu Ser
1 5 10 15

Gly Met Pro Leu Val Ser Ala Asn His Gly Val Thr Gly Met Pro Val
20 25 30

Ser Ala Phe Thr Val Ile Leu Ser Lys Ala Tyr Pro Ala Val Gly Ala
35 40 45

Pro Ile Pro Phe Asp Glu Ile Leu Tyr Asn Arg Gln Gln His Tyr Asp
50 55 60

Pro Arg Ser Gly Ile Phe Thr Cys Lys Ile Pro Gly Ile Tyr Tyr Phe
65 70 75 80

Ser Tyr His Val His Val Lys Gly Thr His Val Trp Val Gly Leu Tyr
85 90 95

Lys Asn Gly Thr Pro Met Met Asn Thr Pro Lys Ala Thr Trp Ile Arg
100 105 110

Leu Gln Gly Val Pro Ser Ser Ile Ser Gln Lys Met Thr Arg Cys Gly
115 120 125

Ser Ser Phe Pro Met Pro Ser Gln Met Ala Tyr Thr Pro Leu Ser Met
130 135 140

Ser Thr Pro Leu Ser Gln Asp Ser
145 150